



# Certificate of Compliance

**Certificate:** 2701663

**Master Contract:** 201067

**Project:** 2701663

**Date Issued:** March 26, 2014

**Issued to:** Chalmers Lighting

A Division of Hubbell Lighting Ltd.  
388 Hillington Rd  
Glasgow, G52 4BL  
United Kingdom  
Attention: Mr. George Banks

*The products listed below are eligible to bear the CSA Mark shown*



*Jim Belevitch*

**Issued by:** Jim Belevitch

## **PRODUCTS**

**CLASS 3428 03** - FIXTURES AND FITTINGS - For Hazardous Locations

Ex d e IIB Gb or Ex d e m IIB Gb; T3 or T4; Tamb = -50°C to +40°C/+55°C (as specified in Table 1 below);  
IP66/67. Suitable for Wet Locations.

OR

Ex d e IIC Gb or Ex d e m IIC Gb; T3 or T4; Tamb = -20°C to +40°C/+55°C (as specified in Table 2 below);  
IP66/67. Suitable for Wet Locations.

Evolution Floodlight Luminaire. Ratings are as specified in Tables 1 and 2 below.

Table 1 – Ratings for IIB:

Lamp Type	Electrical Input Rating	Wattage (W)	Ambient Temp. Range (°C)	Temp. Code	Supply Wire Min. Temp. Rating (°C)	Delay Time Before Opening (minutes)
SON/T	208/220/230 /240/254Vac, 50/60Hz	150	-50 To 40	T4	80	15
SON/T	208/220/230	150	-50 To 55	T3	90	15



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	/240/254Vac, 50/60Hz					
SON/T	208/220/230	250	-50 To 40	T4	80	15
	/240/254Vac, 50/60Hz					
SON/T	208/220/230	250	-50 To 55	T3	90	15
	/240/254Vac, 50/60Hz					
SON/T	208/220/230	400	-50 To 40	T3	80	15
	/240/254Vac, 50/60Hz					
SON/T	208/220/230	400	-50 To 55	T3	95	15
	/240/254Vac, 50/60Hz					
MBI/T	208/220/230	150	-50 To 40	T4	80	15
	/240/254Vac, 50/60Hz					
MBI/T	208/220/230	150	-50 To 55	T3	90	15
	/240/254Vac, 50/60Hz					
MBI/T	208/220/230	250	-50 To 40	T4	80	15
	/240/254Vac, 50/60Hz					
MBI/T	208/220/230	250	-50 To 55	T3	90	15
	/240/254Vac, 50/60Hz					
MBI/T	208/220/230	400	-50 To 40	T3	80	15
	/240/254Vac, 50/60Hz					
MBI/T	208/220/230	400	-50 To 55	T3	90	15



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	/240/254Vac, 50/60Hz					
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Table 2 – Ratings for IIC:

Lamp Type	Electrical Input Rating	Wattage (W)	Ambient Temp. Range (°C)	Temp. Code	Supply Wire Min. Temp. Rating (°C)	Delay Time Before Opening (minutes)
SON/T	208/220/230 /240/254Vac, 50/60Hz	150	-20 To 40	T4	80	15
SON/T	208/220/230 /240/254Vac, 50/60Hz	150	-20 To 55	T3	90	15
SON/T	208/220/230 /240/254Vac, 50/60Hz	250	-20 To 40	T4	80	15
SON/T	208/220/230 /240/254Vac, 50/60Hz	250	-20 To 55	T3	90	15
SON/T	208/220/230 /240/254Vac, 50/60Hz	400	-20 To 40	T3	80	15
SON/T	208/220/230 /240/254Vac, 50/60Hz	400	-20 To 55	T3	95	15
MBI/T	208/220/230 /240/254Vac, 50/60Hz	150	-20 To 40	T4	80	15
MBI/T	208/220/230	150	-20 To 55	T3	90	15



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	/240/254Vac, 50/60Hz					
MBI/T	208/220/230	250	-20 To 40	T4	80	15
	/240/254Vac, 50/60Hz					
MBI/T	208/220/230	250	-20 To 55	T3	90	15
	/240/254Vac, 50/60Hz					
MBI/T	208/220/230	400	-20 To 40	T3	80	15
	/240/254Vac, 50/60Hz					
MBI/T	208/220/230	400	-20 To 55	T3	90	15
	/240/254Vac, 50/60Hz					

#### **APPLICABLE REQUIREMENTS**

- CSA Standard C22.2 No. 0-10 - General Requirements - Canadian Electrical Code Part II.
- CAN/CSA C22.2 No. 60079-0: 11 - Explosive atmospheres — Part 0: Equipment — General requirements
- CAN/CSA C22.2 No. 60079-1: 11 - Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures “d”
- CAN/CSA C22.2 No. 60079-7: 12 - Explosive Atmospheres – Part 7: Equipment Protection by Increased Safety “e”
- CAN/CSA C22.2 No. 60079-18: 12 - Explosive atmospheres — Part 18: Equipment protection by encapsulation “m”
- CSA C22.2 No. 250.0-08 (R2013) - Luminaires
- CAN/CSA C22.2 No. 60529: 05 - Degrees of protection provided by enclosures (IP Code) - First Edition



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## **MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The following markings are applied on a 1.2mm thick stainless steel (or alternatively brass or aluminum) nameplate that is riveted to the front face of the terminal and control gear compartment cover:

- Submittor's name, trademark, or the CSA Master Contract No.
- The model designation "Evolution".
- Serial number and/or date code, traceable to the month and year (at least) of manufacture.
- Electrical ratings (Volts, Amperes).
- Lamp type (including cap size) and wattage.
- Hazardous location designation.
- Temperature Code.
- Ambient temperature range.
- Supply wire minimum temperature rating or the supply wire temperature rise above ambient temperature.
- IP66/67.
- SUITABLE FOR WET LOCATIONS.
- Warning statement "WARNING: DO NOT OPEN WHILE ENERGIZED. DO NOT OPEN FOR 15 MINUTES AFTER ISOLATION" and French translation "ATTENTION: NE PAS OUVRIR SOUS TENSION. NE PAS OUVRIR POUR 15 MINUTES après isolement" or alternate Warning statement "DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT" and French translation "NE PAS OUVRIR UN présence d'atmosphère explosive".
- CSA Mark.



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
2701663	Mar 26, 2014	Certification of Evolution Floodlight luminaire for Hazloc as Ex d e IIB Gb or Ex d e m IIB Gb or Ex d e IIC Gb or Ex d e m IIC Gb.